PROJECT DESCRIPTION

I. GENERAL

This project involves the reconstruction of the existing traffic control signal at the intersection of US 13 at Naylor Mill Rd. in Wicomico County, Maryland. US 13 is considered to run in a north/south direction.

II. INTERSECTION OPERATION

The intersection currently operates in a NEMA six (6) phase, full-traffic-actuated mode. There is an exclusive left turn phase for both the north and southbound movements of US 13. The US 13 through movements operate concurrently. The Naylor Mill Rd. movements operate in a side street split mode. There is a firehouse pre-emption for both directions of US 13.

The intersection phasing is to be revised to accommodate an exclusive lead/lag left turn phase for both the north and southbound movements of US 13.

The existing cabinet and controller are to be utilized.

The existing 2-channel amplifiers are to be replaced with 4-channel rack mounted detection

410-543-6715

410-543-6715

410-543-6715

Mr. Bruce Poole

Mr. James Wright

Mr. Richard L. Daff

Assistant District Engineer - Utility

Chief, Traffic Operations Division 410-787-7630

Assistant District Engineer - Maintenance

III. PAVEMENT MARKINGS

Pavement marking symbols are to installed as part of this traffic signal project by the Traffic Signal Contractor. The pavemnent marking plan shall be utilized for specific locations of 'Arrow's and 'ONLY's. The striping of Naylor Mill Road shall be handled by MD-SHA.

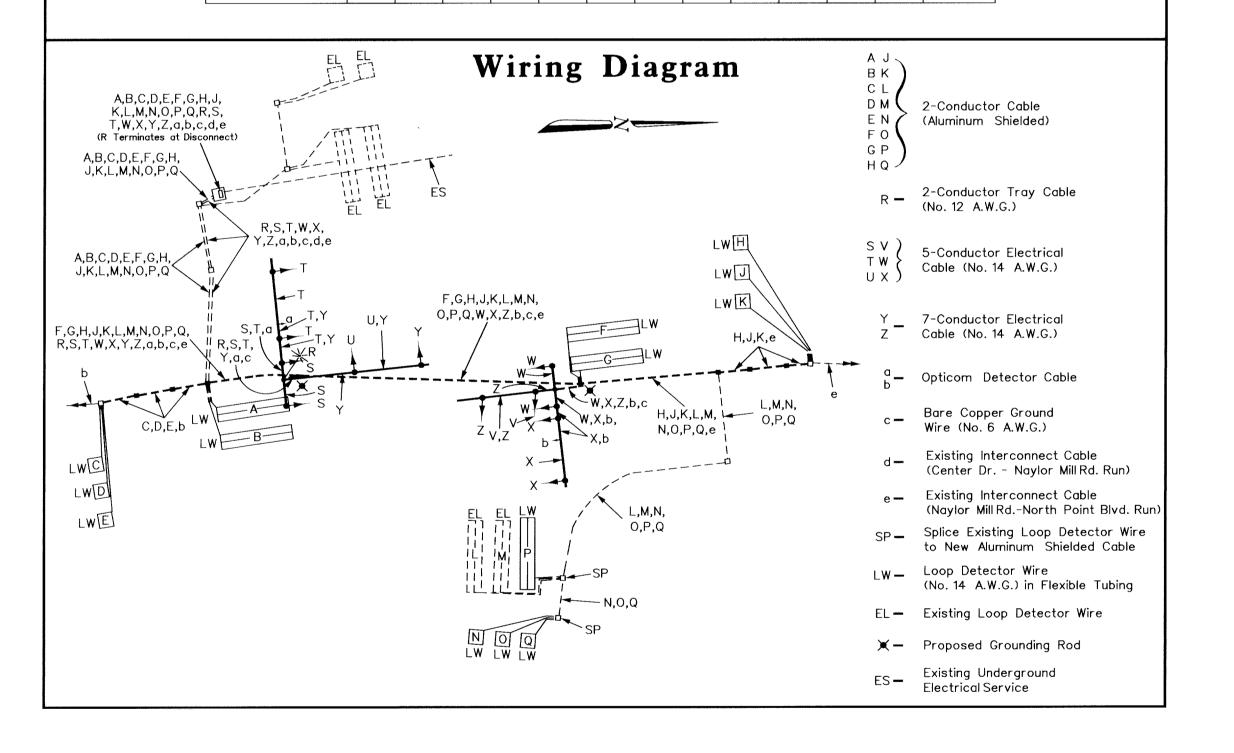
EQUIPMENT LIST

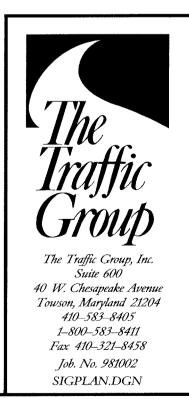
A. Approved S.H.A. equipment to be purchased by the Developer and installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.					B. Equipment to be furnished and installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.				
iantity	Units	Specification Section	Description	Quantity	Units	Specification Section	Description		
1	EA	818	27 ft. steel twin mast arm pole with two 50 ft. mast arms	Lump Sum	LS	108	Mobilization.		
, LA		0.10	(Note: 1-3/4 in. x 90 in. anchor bolts).	Lump Sum	LS	104	Maintenance of traffic.		
1	EA	818	27 ft. steel twin mast arm pole with 50 ft. and 70 ft. mast arms (Note: 2 in. x 90 in. anchor bolts).	2	CY	205	Test pit excavation.		
2	EA	818	10 ft. mini-mast arm with appropriate mounting hardware.	8	EA	811	Handhole.		
6	EA	814	12 in., one-way, three section (R,Y,G) adjustable traffic	920	LF	815	Sawcut for signalloop detector.		
		014	signal head with mast arm mounting hardware and tunnel visors.	3825	LF	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.		
4	EA	814	in., one-way, three section (RA,YA,GA) adjustable traffic	7040	LF	810	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).		
	LA	014	signal head with mast arm mounting hardware and tunnel visors.	165	LF	810	2-conductor electrical tray cable (No. 12 A.W.G.).		
2	EA	814	12 in., one-way, four section (R,Y,G,GA) adjustable traffic	1190	LF	810	5-conductor electrical cable (No. 14 A.W.G.).		
2	EA	014	signal head with mast arm mounting hardware and tunnel visors.	580	LF	810	7-conductor electrical cable (No. 14 A.W.G.).		
4	EΑ	813	30 in. x 36 in. R 3-5(L) sign with mast arm mounting hardware.	270	LF	804	Bare copper stranded ground wire (No. 6 A.W.G.).		
3	EA	813	30 in. x 36 in. R 3-5(R) sign with mast arm mounting hardware.	70	LF	805	1 in. liquid tight flexible non-metalic conduit for loop detector sleev		
3				850	L _{or} f	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.		
0	EA			35	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.		
2	EA EA	*		125	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.		
5		*	4-channelrack mounted amplifier.	7.3	CY	801	Concrete foundation for traffic signal equipment.		
				2	EA	804	Ground rod $-\frac{3}{4}$ in. diameter x 10 ft. length.		
		*	To be installed by MD-SHA.	60	LF	550	24 in. wide HAPPTPM - white for stop line.		
				16	EA	550	HAPPTPM pavment marking symbol - 'Left Arrow'.		
				4	EA	550	HAPPTPM pavment marking symbol - 'Left-Thru Arrow'.		
				4	EA	550	HAPPTPM pavment marking symbol - 'Right Arrow'.		
				4	EA	550	HAPPTPM pavment marking symbol - 'ONLY'.		
				500	LF	and Anny land	3-M Opticom detector cable.		
				1	EA	and and him	Cut, clean, and cap mast arm pole.		
				2	EA		Loop detector splice.		
				5	EA	কাৰ্ড প্ৰকে খাবৰ	Relocate existing sign (use new hangar assembly).		
			CONTACT LIST	2	EA	and, year date	Relocate existing opticom detector eye.		
				1	EA	and such and	Relocate existing luminaire arm and luminaire.		
			The contact persons for District *1 are as follows:	Lump Sum	LS		Remove existing signal equipment.		
		Mr. Donnie Drewer District Engineer		Lump Sum	LS	mand while some	Relocate existing interconnect cable.		
			410-543-6715 Mr. Gene Cofiell	Lump Sum	LS	and here have	As-built for S.H.A. [on CADD].		

Phase Chart (F) (F) (G) (R (Y) (G) (R) (Y) (G) G -R-R-1 Change G | G | -R-| -R-| Phase 2 & 5 5 Change --R-- | --R-- | Y | Y | -R- | -R-Phase 2 & 6 2 & 6 Change R R -Y-Y-Phase 3 3 Change Phase 4 4 Change FL/ FL/Y FL/Y FL/Y FL/Y FL/R FL/R FL/R FL/R Flashing Operation Pre-Emption Phase Pre-Emp Phase 1 **-**G - G - G $G \leftarrow R - \leftarrow R - \mid R \mid R \mid$ R R R R 1 Change Y -R-R-Pre-Emp Phase 2

Y -R-R-

2 Change







MDOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION

(General Information)

US 13 at Naylor Mill Road April 21, 1999 LOC MILE # 22001312.65 DRAW

IE: <u>~~</u>	JI II Z I, 1999			LOG MILE * 22001312.65		
WN BY:	J. Storck	F.A.P. NO.	N/A	PLAN SHEET NO.:	SHEET NO.	
í. BY:	<u>M</u>	S.H.A. NO.	BW996M82	·		
LE:	N/A	COUNTY:	WICOMICO	1506F-GI	2 of 2	